

## PERSONAL INFORMATION



## Gonçalo Pinto Mendes

📍 Rua Rafael Bordalo Pinheiro, 30, 1º Esq., 2870-197 Montijo, PORTUGAL

☎ (+351) 21 231 9149 📠 (+351) 96 411 2730

✉ [gmesperto@gmail.com](mailto:gmesperto@gmail.com), [goncalo.p.mendes@tecnico.ulisboa.pt](mailto:goncalo.p.mendes@tecnico.ulisboa.pt)

🌐 [www.linkedin.com/in/gmesperto](https://www.linkedin.com/in/gmesperto)

💬 Skype goncalo\_at\_mitportugal

Sex Male | Date of birth 30/06/1983 | Nationality Portuguese

## WORK EXPERIENCE

From Jan 1st, 2010 to present

## Research Analyst – Clean Energy Modelling &amp; Analysis

IN+ Center for Innovation, Technology and Policy Research, at IST-UTL (<http://in3.dem.ist.utl.pt>)

- Researcher in fields of energy modelling and planning, focusing in buildings distributed energy
- Participation in building energy management and planning projects in Portugal, the US and Asia
- Frequent organizer of networking and seminar events within the R&D and Industry community
- Internationally cited author/co-author and reviewer of several peer-reviewed journal and conference articles, and a frequent presenter and field advocate in events worldwide

Sector R&D

From Jan 1, 2009 to Dec 31, 2009

## Consultant – Energy Efficiency and Renewables, Energy &amp; Environment Division

Ad.Mensuram, Lda. – JesusFerreira Consultores ([www.jesusferreira.com.pt](http://www.jesusferreira.com.pt))

- Performed Commercial buildings energy audits under the National Energy Labelling Scheme
- Project Analysis and Energy efficiency feasibility studies for acclimatization of Commercial buildings
- Had full responsibility on projects management from the customer initial contact to final billing

Sector Consultancy, with clients in Health, Tourism, Entertainment, Banking, Telecom, Law

From Aug 6, 2007 to Aug 6, 2008

## Field Engineer – Waterworks, Technical Dept.

J. Miguel – Comércio e Indústria de materiais de construção ([www.jmiguel.pt](http://www.jmiguel.pt))

- Managing technical installation work teams of advanced waterworks in big Commercial and Industrial environments, namely distribution, sewage, drainage and fire combat systems
- Solar thermal energy systems acclimatization
- To assure correct and timely execution of projects
- To grant materials and equipment on the field.
- Back-office management and field works provision in what concerns materials and equipment
- Responsible for the company's technical assistance and maintenance core area
- Responsible for the company's environmental performance.

Sector Energy & Environmental solutions supply and installation

From Jan 1, 2009 to Dec 31, 2009

Tech. Ass<sup>st</sup>/ Junior Field Engineer, Solar Energy, Technical & Commercial Dept.

PENTASOLAR - Instalações Técnicas de Climatização ([www.pentasolar.pt](http://www.pentasolar.pt))

- Technical and Commercial department backup mainly on estimates elaboration, project development and assistant field work for a wide diversity of Residential and Commercial projects
- Solar thermal energy systems acclimatization, HVAC systems in general.
- Responsible for the company's environmental performance.

Sector Energy solutions supply and installation

## EDUCATION AND TRAINING

From Jan 1st, 2010 to present

### Ph.D. - Thesis title: *"Microgrids as Key for Energy Efficiency: Study of Customer Adoption Patterns Under Different Demand and Climate Characteristics"*

ISCED 8

Instituto Superior Técnico ([www.ist.utl.pt](http://www.ist.utl.pt)) – on the extent of the MIT Portugal Program ([www.mitportugal.org](http://www.mitportugal.org)) and under a collaboration agreement with the Lawrence National Laboratory of the University of California, Berkeley (<http://www.lbl.gov>)

- The goal of my Ph.D. work is to use economic-environmental modelling and/or optimization tools to assess building customer adoption patterns of distributed energy systems, which are still not clear
- I also look deeply at building energy analysis, electric vehicle interactions, demand-side management, energy efficiency and management and environmental impacts of energy systems.
- I am part of DER-CAM energy analysis tool team at Berkeley Lab, where I was for two times a Guest Researcher (2010 and 2012) in research projects for US DOE.

Sep 8, 2008 to Sep 8, 2009

### Advanced Studies Diploma in Sustainable Energy Systems

ISCED 8

Instituto Superior Técnico ([www.ist.utl.pt](http://www.ist.utl.pt)) – on the extent of the MIT Portugal Program ([www.mitportugal.org](http://www.mitportugal.org))

- Economy and management of Energy and Environment. Modelling, Integration and optimization of Energy systems. Renewable energy resources and Policies.
- Electrical networks and Electrical Systems with renewables. Renewable energy Technologies. Advanced energy conversion systems. Risk management.
- Energy in buildings. Sustainability.

Sep 15, 2001 to Jun 5, 2007

### Environmental Eng. specializing in *Environmental Management*

ISCED 7

Faculdade de Ciências e Tecnologia – Universidade Nova de Lisboa ([www.fct.unl.pt](http://www.fct.unl.pt))

- Audit and eco-management, energy & environmental management, modelling and environmental systems analysis, Sustainable development and economies, environmental impacts assessment, product life cycle analysis, waste disposal and treatment systems, renewable energy resources.
- Internship courses I & II at YDreams – Environment & Quality of Life Division: Development of an Indoor air quality and energy consumption management system in buildings and application on the Eco-Label touristic accommodations. Final grade 18/20.
- Consultant on the extent of the Audit and Eco-Management Probation work: Environmental audit to the Sport Lisboa e Benfica's Stadium installations. Final grade 18/20.

## PERSONAL SKILLS

Mother tongue(s)

Portuguese

Other language(s)

	UNDERSTANDING <sup>#</sup>		SPEAKING <sup>#</sup>		WRITING <sup>#</sup>
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C2	C2	C2
Do not possess an English Language proficiency certificate.					
Spanish	B1	B2	B1	B1	B1
IEL - Instituto Espanhol de Línguas – Level A1					
German <sup>*</sup>	A1	A1	A1	A1	A1
Goethe-Institut – Level A1					

<sup>\*</sup>Attended German classes during three years of Secondary education.

<sup>#</sup>According to the Common European Framework of Reference for Languages.

- Communication skills**
- Highly communicative and social-minded. Proactivity. Adaptability to new work environments.
  - An above-the-average problem-solver and mediator. Excellent client engagement capabilities (gained through experiences in managing projects and associative initiatives). Good networker.
- Organisational / managerial skills**
- Team worker but able to work independently and to multi-task. Ability to reason with holistic thinking. Strong proved leadership skills (managed teams from 5 to over 10 people). Has been able to deliver under high pressure circumstances. Result-oriented approach and hands-on practical conduct.
- Job-related skills**
- Broad set of technical skills on the clean Energy and Environment fields. Energy Efficiency. Distributed energy Modelling and Planning. Had additional training on these topics.
  - Energy audits. Energy and/or Environmental Management. Solar thermal systems. Construction works field experience. Environmental and waste audits. Had additional training on these topics.
- Computer skills**
- Miscellaneous set of IT-related skills, on software and hardware. AutoCAD 2D for engineering project analysis. Building Simulation with VisualDOE, EnergyPlus and DesignBuilder environments. Energy planning optimization with DER-CAM/GAMS and HOMER. MS Project. Microsoft Office environment tools. LaTeX for scientific documents creation. Prezi for out-of-the-box presentations. Origin graphs.
  - Basic knowledge on management software PRIMAVERA. Some experience with GIS. Notions on web design on Frontpage environment or Macromedia Flash. Generic knowledge of html or kml (Google Earth). Versatile fast-learning user.
- Other skills**
- Very frequent traveller; visited over 20 countries. Mountain biking enthusiast and ex-racer (regional champion). Trail running passionate. Course on Fire fighting by the Portuguese Navy (2006).
- Driving licence**
- European B acquired in 2002.

## ADDITIONAL INFORMATION

- Some Publications**
- G. Mendes, M. Stadler, P. Ferro, C. Marnay, C. Ioakimidis, "Assessment of customer microgrids adoption patterns under different demand characteristics", under review by IEEE TRANS. SUSTAIN. ENERGY: Special Section on Microgrids for Sustainable Energy Systems.
  - G. Mendes, C. Ioakimidis, P. Ferro, "On the Planning and Analysis of Integrated Community Energy Systems: A Review and Survey of Available Tools", RENEW SUST ENERG REV, 2011.
- Some Projects**
- Asian Development Bank – "Preparation of Sector Road Maps for Central and West Asia"
  - SMAGIS – "A Smart Energy Grid Integration System Configuration of an Energy Storage System in presence of RES Microgeneration, EDVs and Polygeneration"
  - Hospital Curry Cabral Complex, Audit for the Minister of Health of Portugal
  - PT Picoas Headquarters, Energy Rationalization plan for Portugal Telecom Group
  - Framework on Independent Production of Electricity for Onyria Group
  - m2cE Project – Education for Better Cities and Energy efficiency in Portuguese High Schools
- Some Presentations**
- "Milligrids and its role towards Smart Cities", Presented at the ISTC -International Science and Technology Center meeting on Energy security, Almaty, Kazakhstan, 2013
  - "Multi-Building Microgrids for a Distributed Energy Future in Portugal", Presented at the ICAE - International Conference on Applied Energy, Suzhou, China, 2012.
- Some Conferences**
- ISTC ENERGY SECURITY INTERNATIONAL SEMINAR KAZAKHSTAN 2013, APPLIED ENERGY CONFERENCE CHINA 2012, EUROPEAN ENERGY CONFERENCE NETHERLANDS 2012, EUROPEAN ENERGY MARKETS CROATIA 2011. MICROGRID SYMPOSIUMS 2012 PORTUGAL, 2013 CHILE, E3 FORUM 2011, 2012, 2013, EXPOENERGIA 2009, 2010, 2011, CLIMATIZACIN, GENERA SPAIN 2007, TEKTNICA 2007, RENEWABLE ENERGY IN PORTUGAL AND EUROPE, JORTEC 2005, 2006 e 2007, PELAMIS WAVE TECHNOLOGY SEMINAR, JORNADAS ENERGIA 2008, 2009, SOLAIR WORKSHOP.
- Honours and awards**
- BEST POSTER AWARD: G. Mendes, Paulo Ferro, C. Marnay, C. Ioakimidis, "Modeling PEV Interactions Between a Small Community Microgrid and a Public Office Building", Poster presented at the E3 - Education, Employment, Entrepreneurship Forum, Lisbon, Portugal, 2011.
  - Selected amongst hundreds of applicants for international student courses in Denmark and Portugal.
- Memberships**
- Co-founder, President at MIT PORTUGAL ENERGY CLUB. Former member of BEST at IST-UTL.
- References**
- Available upon request.